



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590
MAR 8 2001

DOT-E 10984
(FIFTH REVISION)

EXPIRATION DATE: February 28, 2003

(FOR RENEWAL, SEE 49 CFR § 107.109.)

1. GRANTEE: BOC Gases
Murray Hill, New Jersey

(See Appendix A to this document for a list of additional grantees)
2. PURPOSE AND LIMITATION: This exemption authorizes for transportation in commerce the use of specially-designed UN 1A1 steel drums for the shipment of dichlorosilane, subject to the limitations and special requirements specified herein. This exemption provides no relief from any regulation other than as specifically stated.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.304(d) in that the packaging is not authorized, except as specified herein.
5. BASIS: This exemption is based on BOC Gases' application dated December 28, 2000, submitted in accordance with § 107.109.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description/proper shipping name	Hazard Class or division number	Identification number	Packing Group
Dichlorosilane	Division 2.3	UN 2189	N/A

7. SAFETY CONTROL MEASURES:

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a. PACKAGING - Packaging prescribed is a specially-designed UN 1A1 steel drum, designed, constructed, and "U" or "UM" stamped in accordance with the ASME Code Section VIII. Each drum, except for the 5 liter (0.5 gallon) capacity drum, is equipped with a protective skirt and cover. Drums must meet the following minimum criteria:

Drawing	5GAIRC O Rev. J	51bAIR CO Rev. K	55AIRC O Rev. H	10GAIR CO Rev. S	C501- 1288- 00 Rev. H	D501- 3966-00 Rev. L
Capacity (gallons)	5	0.5	55	10	10	55
Thickness (inches)	0.135	0.109	0.165	0.135	0.105	0.135
Material	316L	316L	316L	316L	316L	316L
MAWP (psig)	120	45	115	120	100	100
Hydrostatic Test (psig)	180	68	173	180	150	150

b. TESTING - Drums certified to the UN 1A1 standard must be tested in accordance with 49 CFR Subpart M of Part 178, at the Packing Group I level for liquids. Minimum hydrostatic test pressure is as indicated in the table above. Each drum must successfully pass a leakproofness test at the MAWP indicated in the table above.

c. Sufficient outage must be provided so that the packaging will not be liquid full at 130°F.

d. When shipping drums that are not overpacked, the shipper must load the drums, block and brace the drums for transportation in accordance with a prepared plan which precludes stacking (double decking) and must seal the freight container or vehicle used. Shipments must be from one origin to one destination only. No intermediate pickup or delivery is authorized.

e. When shipping drums that are overpacked, the overpack must be a UN 1A2 or UN 1H2 drum meeting the applicable requirements of § 173.227(b).

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8. SPECIAL PROVISIONS:

a. Persons who receive the packages covered by this exemption may reoffer them for transportation provided no modifications or changes are made to the packages, all terms of this exemption are complied with and a current copy of this exemption is maintained at each facility from which such reoffering occurs.

b. Shippers using the packaging covered by this exemption must comply with all provisions of this exemption, and all other applicable requirements contained in 49 CFR Parts 171-180.

c. MARKING - In addition to the UN 1A1 markings (as required by § 178.503), each drum must be marked "DOT-E 10984."

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel.10. MODAL REQUIREMENTS: A copy of this exemption must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this exemption.11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq.:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

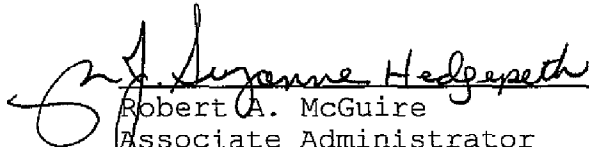
Each "hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken

under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:


Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

MAR 8 2001
(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

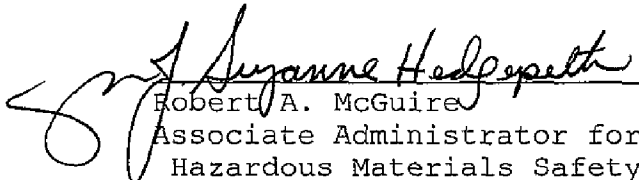
PO: KFW

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APPENDIX A

The following are hereby granted party status to this exemption based on their application(s) submitted in accordance with 49 CFR 107.107 and the public proceeding thereon or 107.109, as appropriate:

Company Name City/State	Application Date	Issue Date	Expiration Date
Matheson Tri- Gas, Inc. East Rutherford, NJ	1/22/01	MAR 8 2001	2/28/03


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety